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sists mainly in the reduction of species of this large group, and his work bears evidence of care and judgment. It is accompanied by two plates giving outline figures of the "hands" of these crabs. The third notice comprises a revision of the genus *Ocypoda* or sand-crabs, and here the author has no doubt wisely reduced the number of nominal species of the genus. In the fourth series of notes is given a synopsis of the Grapsidæ.

RECENT BOOKS AND PAMPHLETS.—*Das System der Medusen.* Erster theil einer monographie der Medusen. Von Dr. Ernst Haeckel. 1 Vol., folio, pp. 672, plates 40. Jena, 1879. From the author.

The structure and affinities of *Euphoberia* Meek and Worthen, a genus of Carboniferous Myriapoda. By S. H. Scudder. (From Amer. Journ. Sci., Vol. XXI, March, 1881.) pp. 5. From the author.

The stomach and genital organs of *Astrophytidæ*. By Theodore Lyman. (Bull. Mus. Comp. Zool., Vol. VIII, No. 6.) pp. 9, plates 2. From the author.

On the temporal and masseter muscles of Mammals. By Harrison Allen, M.D. (Proc. Acad. Nat. Sci., 1880.) pp. 12. From the author.

On a new species of *Iguanodon* found in the Kimmeridge clay. By J. W. Hulke. (From the Quart. Journ. of the Geol. Soc., Aug., 1880.) pp. 26, plates 3. From the author.

The mineral resources of the Hocking valley. By T. Sterry Hunt, LL.D. 8vo, pp. 152, and one map. 1881. From the author.

The Development of the Squid, *Loligo pealii* Les. By W. K. Brooks. (Anniv. Mem. Boston Soc. Nat. Hist.) 4to, pp. 22, plates 3, 1880. From the author.

Studies on the Tongue of Reptiles and Birds. By C. S. Minot. (Anniv. Mem. Boston Soc. Nat. Hist.) 4to, pp. 20, one plate, 1880. From the author.

Die Jungen Ablagerungen am Hellespont. Von Frank Calvert und M. Neumayr. 4to, pp. 22, two plates, 1880. From the authors.

Second Annual Report of the Department of Statistics and Geology of Indiana. 8vo, pp. 544, plates 11, one map, 1880. From the department.

Monographie des Mammifères Fossiles de la Lombardie. Par M. Emile Cornalia. 4to, pp. 95, plates 28. Milan, 1858-71.

Carattere marino dell'Amfiteatro morenico del lago di Como. Per A. Stoppani e G. Negri. 8vo, pp. 77, plates 4. Milano, 1878. From the authors.

Mission Scientifique au Mexique et dans l'Amérique Centrale. Recherches Zoologiques. Troisième partie. Etudes sur les Reptiles et les Batraciens. Par MM. Auguste Duméril et Bocourt. Folio, pp. 441-488, plates 6. Paris, 1881. From the authors.

Gaceta Científica de Venezuela. Año IV, No. 1, Feb., 1881. Carácas. From the editor.

Notes on Liberian Coffee. By D. Morris. Folio, pp. 14. Jamaica, 1881. From the author.

Biennial Report of the State Geologist of the State of Colorado, for the term ending Dec. 31, 1880. 8vo, pp. 75. Denver, 1881. From the State geologist.

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## GENERAL NOTES.

### BOTANY.<sup>1</sup>

ON THE EVAPORATION OF WATER FROM LEAVES (TRANSPIRATION).—The following investigations, made by Miss Ida Twitchell, in the Botanical Laboratory of the Iowa Agricultural College,

<sup>1</sup> Edited by PROF. C. E. BESSEY, Ames, Iowa.